## AMENDMENTS TO THE CLAIMS

Claims 1-40 are pending in the instant application. Claims 2-3, 11, 22 and 24 have been amended. Claims 1, 21 and 32 are independent. Claims 2-20, 22-31 and 33-40 depend from independent claims 1, 21 and 32, respectively.

The Applicant requests reconsideration of the claims in view of the following amendments reflected in the listing of claims.

## Listing of claims:

- (Original) A method for reducing phase noise, comprising:

   generating a signal at a particular frequency, the signal being associated

  with a harmonic frequency signal disposed at a harmonic frequency; and selectively attenuating frequency content disposed in a region around the harmonic frequency.
- (Currently Amended) The method of claim 1, further comprising:
   associating the signal with a second harmonic frequency signal disposed at
   a second harmonic frequency; and

selectively attenuating frequency content disposed in a second region around the second harmonic frequency.

3. (Currently Amended) The method of claim 1, further comprising: applying at least one non-linear operation to the signal; and transmitting the applied signal.

- 4. (Original) The method of claim 3, wherein applying at least one non-linear operation to the signal comprises dividing the signal.
- 5. (Original) The method of claim 3, wherein applying at least one non-linear operation to the signal comprises mixing the signal with a reference signal.
- 6. (Original) The method of claim 3, wherein applying at least one non-linear operation to the signal comprises amplifying the signal.
- 7. (Original) The method of claim 1, wherein the signal is generated by at least one of a fixed frequency oscillator, a voltage controlled oscillator, and a current controlled oscillator.
- 8. (Original) The method of claim 1, wherein the frequency content is selectively attenuated by at least one attenuating circuit.
- 9. (Original) The method of claim 8, wherein the at least one attenuating circuit comprises at least one of an integrated component and a discrete component.
- 10. (Original) The method of claim 8, wherein the at least one attenuating circuit comprises at least one harmonic trap.
  - 11. (Currently Amended) The method of claim 1, further comprising: buffering the signal prior to selectively attenuating the frequency content.
- 12. (Original) The method of claim 11, wherein the buffering is performed by a buffer.

Application No. 10/813,486 Reply to Office Action of July 2, 2007

- 13. (Original) The method of claim 12, wherein the selective attenuating of the frequency content is performed within the buffer.
- 14. (Original) The method of claim 1, wherein the signal comprises a differential signal.
- 15. (Original) The method of claim 1, wherein the signal comprises a quadrature signal.
- 16. (Original) The method of claim 1, wherein the selective attenuating comprises canceling frequency content disposed in the region around the harmonic frequency.
- 17. (Original) The method of claim 16, wherein the canceling frequency content disposed in the region around the harmonic frequency comprises canceling frequency content disposed only at the harmonic frequency.
- 18. (Original) The method of claim 1, wherein the selective attenuating comprises notching frequency content disposed in the region around the harmonic frequency.
- 19. (Original) The method of claim 18, wherein the notching frequency content comprises notching frequency content disposed only at the harmonic frequency.

- 20. (Original) The method of claim 1, wherein the selective attenuating comprises bandstopping frequency content disposed in the region around the harmonic frequency.
  - 21. (Original) A circuit for reducing phase noise, comprising:
- a signal generator that generates a signal at a particular frequency, the signal being associated with a harmonic frequency signal disposed at a harmonic frequency; and

an attenuating circuit that selectively attenuates frequency content disposed in a region around the harmonic frequency.

- 22. (Currently Amended) The circuit of claim 21, further comprising:
- a buffer for buffering the signal, the buffer being coupled to the signal generator.
- 23. (Original) The circuit of claim 22, wherein the attenuating circuit is part of the buffer.
  - 24. (Currently Amended) The circuit of claim 21, further comprising:
- a non-linear operation circuit that applies at least one non-linear operation to the signal to obtain an outgoing signal; and
  - a transmitting circuit for transmitting the outgoing signal.
- 25. (Original) The circuit of claim 24, wherein the transmitting circuit comprises an antenna.
- 26. (Original) The circuit of claim 24, wherein the non-linear operation circuit comprises a divider that divides the signal.

- 27. (Original) The circuit of claim 24, wherein the non-linear operation circuit comprises a mixer that mixes the signal with a reference signal.
- 28. (Original) The circuit of claim 24, wherein the non-linear operation circuit comprises an amplifier that amplifies the signal.
- 29. (Original) The circuit of claim 21, wherein the signal generator comprises at least one of a fixed frequency oscillator, a voltage controlled oscillator, and a current controlled oscillator.
- 30. (Original) The circuit of claim 21, wherein the attenuating circuit comprises at least one of an integrated component and a discrete component.
- 31. (Original) The circuit of claim 30, wherein the attenuating circuit comprises at least one harmonic trap.
  - 32. (Original) A system for reducing phase noise, comprising:
- a signal generator that generates a signal at a particular frequency, the signal being associated with a harmonic frequency signal disposed at a harmonic frequency; and
- a buffer that buffers the signal, the buffer adapted to selectively attenuate frequency content disposed in a region around the harmonic frequency.
- 33. (Original) The system of claim 32, wherein the signal comprises a differential signal.

Application No. 10/813,486 Reply to Office Action of July 2, 2007

- 34. (Original) The system of claim 32, wherein the signal comprises a quadrature signal.
- 35. (Original) The system of claim 32, wherein the signal generator comprises a differential signal generator.
- 36. (Original) The system of claim 35, wherein the buffer comprises a differential pair of transistors, the differential pair of transistors being adapted to receive the signal.
- 37. (Original) The system of claim 32, wherein the buffer comprises a harmonic trap, the harmonic trap being adapted to attenuate the frequency content disposed in the region around the harmonic frequency.
- 38. (Original) The system of claim 37, wherein the harmonic trap is disposed across a differential output of the buffer.
- 39. (Original) The system of claim 32, wherein the buffer is adapted to band stop the frequency content disposed in the region around the harmonic frequency.
- 40. (Original) The system of claim 32, wherein the buffer is adapted to notch the frequency content disposed only at approximately the harmonic frequency.